No specific requirement, however, network element will be monitored as part of BellSouth network infrastructure.

Special Considerations

None
Billing Guarantees do not apply
Blocking Performance reports - none

3) Credit Terms - None. Since these charges are on a usage sensitive basis, there are no customer commitments for this service. There are also no volume or term options for this service.

2. Deployment Schedule

- Ubiquitous deployment assuming current Central Office capabilities

D. Feature Interaction

Customers purchasing this UNE will also be billed the Unbundled Tandem Switching (UTS) and must have purchased an Unbundled Local Switching (ULS) port.

E. Description of Centers affected and their roles

Local Carrier Service Center (LCSC)
Handle Billing Disputes
Circuit Capacity Management (CCM)
Plan Interoffice Trunking Network based on all requirements.
Circuit Provisioning Group (CPG)
Provision Interoffice Trunking Network
Central Office Work Group (COWG)
Install new facilities based on WORD
Access Customer Advocacy Center (ACAC)
Not Involved

The Flow Diagram Below describes the work flows and groups involved with the provisioning of the shared interoffice trunking network utilized by UIT-S.

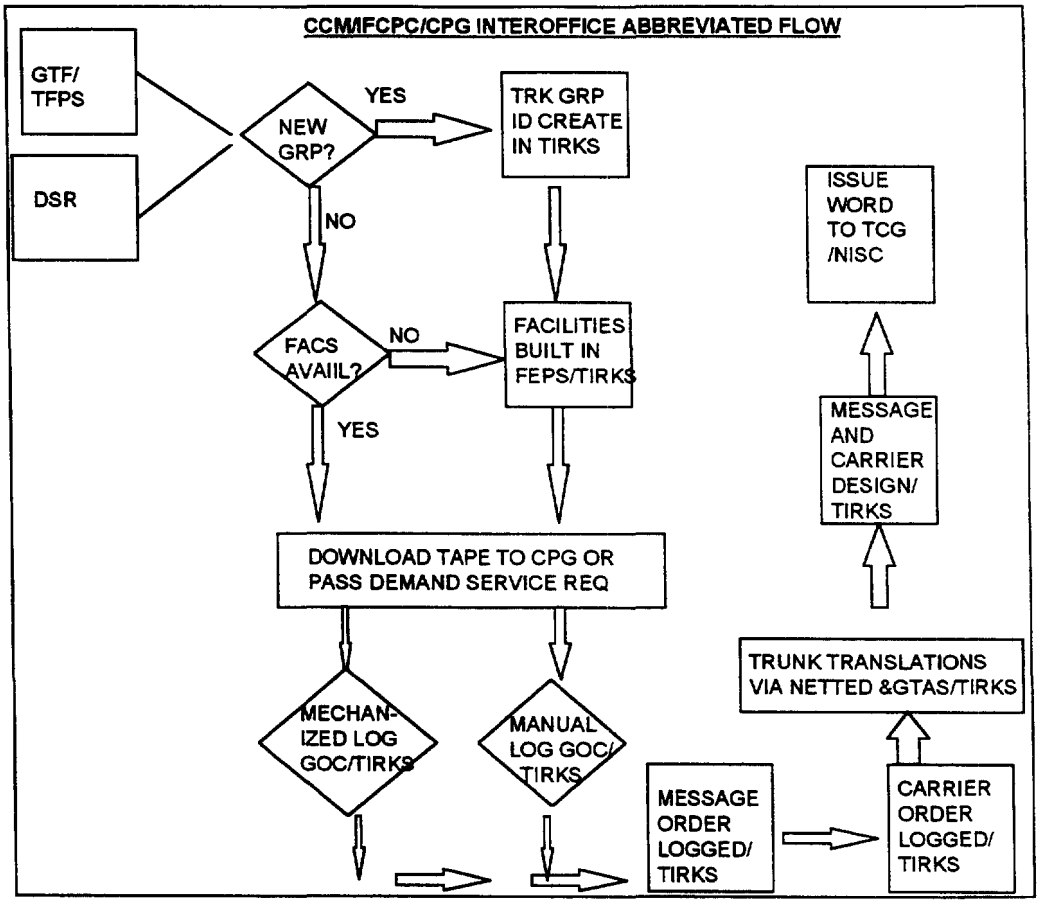


Figure 2. UIT-S Work Flow Diagram

2. Installation Intervals

Not Applicable to UIT-S.

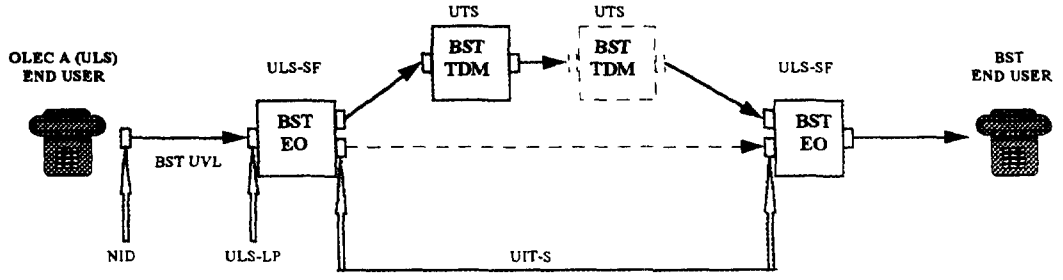
3. Service Inquiry & Ordering Guidelines

Not Applicable to UIT-S.

4. Customer Education

Customer Education for UIT-S is available upon request from the CLEC Account Team.

5. Appendix A



Billing Concept
– Unbundled Network Elements

Usage Recordings
– Call Code 001 MBI01 (NOT MBI13) or Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

BST bills OLEC A
– UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, Unbundled Tandem Switching (UTS)

* The UTS & UIT-S rate is a melded rate that includes direct, tandem and multiple tandem routing. UIT-S is usage based.

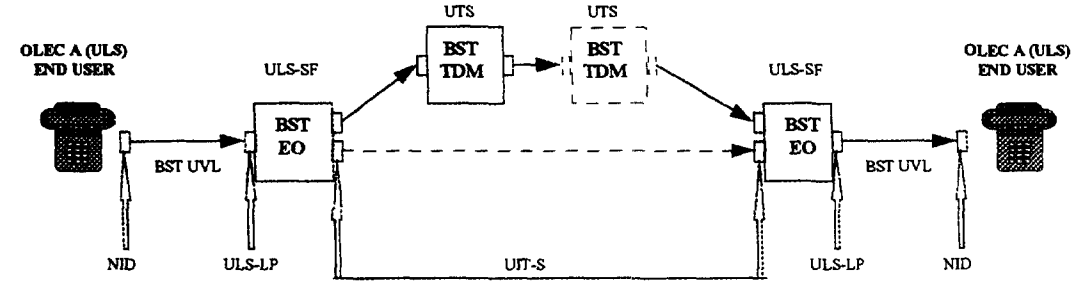
The UIT-S and UTS rates may be different from the access rates.

Signaling is part of the melded rate.

Billing Factors
– NCTA

Record Exchange
– BST sends Local record to OLEC A if appropriate via BIOSS

Appendix A Figure 1



Billing Concept
– Unbundled Network Elements

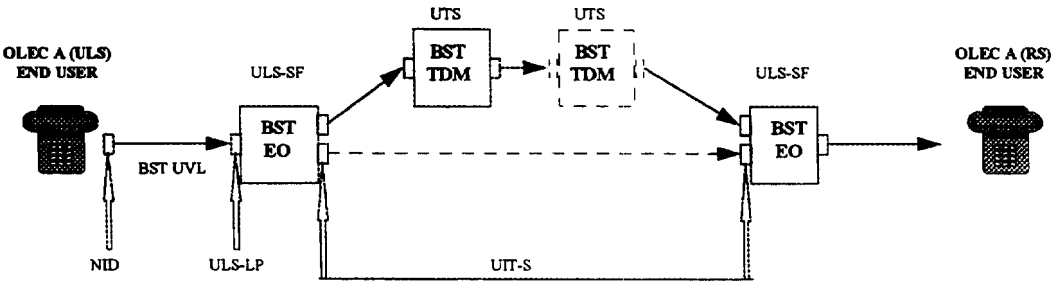
Usage Recordings
– Call Code 001 MBI01 (NOT MBI13) or Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

BST bills OLEC A
–2 UVL, 2 ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS

Billing Factors
– NCTA

Record Exchange
– BST sends Local record to OLEC A if appropriate via BIOSS

Appendix A Figure 2



Billing Concept
– Unbundled Network Elements

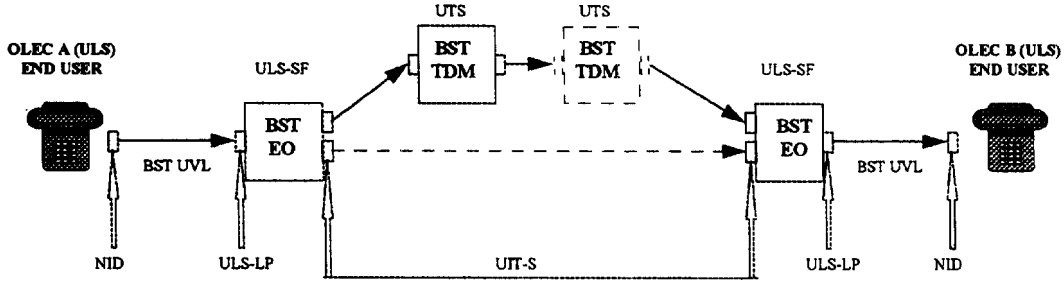
Usage Recordings
– Call Code 001 MBI01 (NOT MBI13) or Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

BST bills OLEC A
– UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS

Billing Factors
– NCTA

Record Exchange
– BST sends Local record to OLEC A if appropriate via BIOSS

Appendix A Figure 3



Billing Concept
– Unbundled Network Elements

Usage Recordings
– Call Code 001 MBI01 (NOT MBI13) or Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

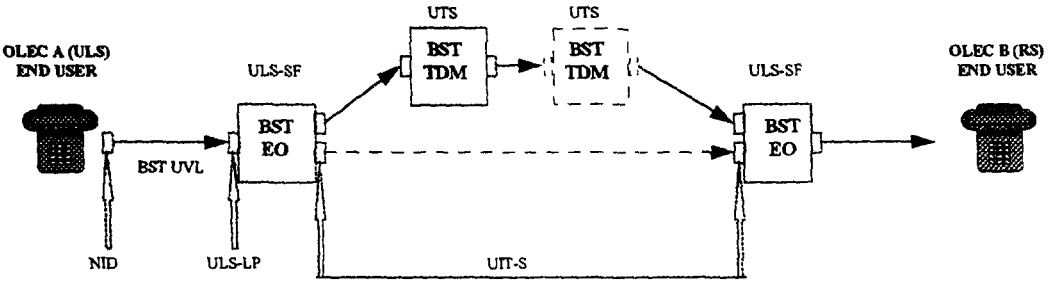
BST bills OLEC A
– UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS

BST bills OLEC B
– UVL, ULS-LP

Billing Factors
– NCTA

Record Exchange
– BST sends Local record to OLEC A if appropriate via BIOSS

Appendix A Figure 4



Billing Concept
– Unbundled Network Elements
– Resold Local Services

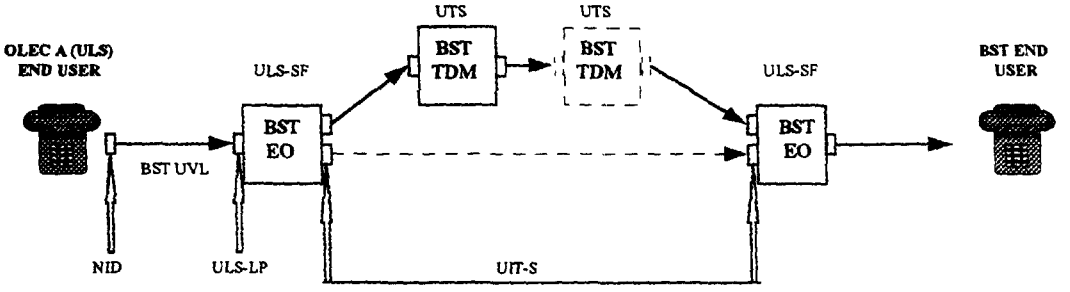
Usage Recordings
– Call Code 001 MBI01 (NOT MBI13) or Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

BST bills OLEC A
– UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS

Billing Factors
– NCTA

Record Exchange
– BST sends Local record to OLEC A if appropriate via BIOSS

Appendix A Figure 5



Billing Concept
– Unbundled Network Elements

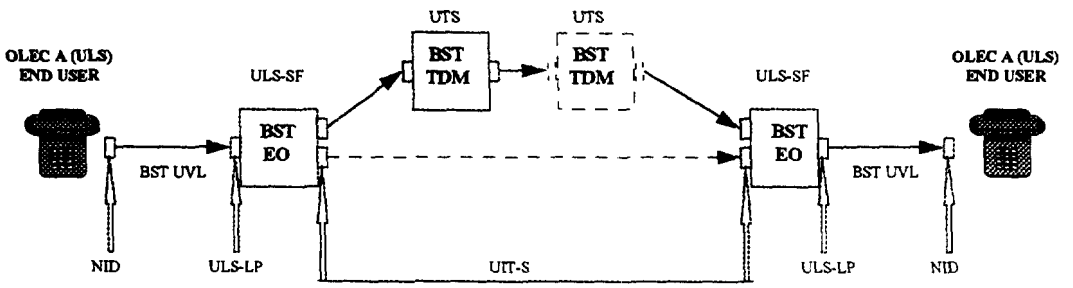
Usage Recordings
– Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

BST bills OLEC A
– UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS
–2 CCL & 2 3/4RIC until 7/1/97

Billing Factors
– NCTA

Record Exchange
– BST sends Toll record to OLEC A if appropriate via BIOSS

Appendix A Figure 6



Billing Concept
– Unbundled Network Elements

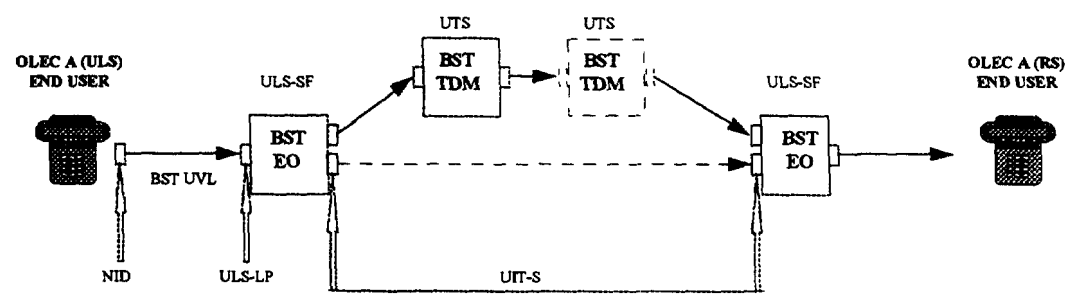
Usage Recordings
– Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

BST bills OLEC A
– UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS
– UVL, ULS-LP
– 2 CCL until 7/1/97
– 2 3/4RIC until 7/1/97

Billing Factors
– NCTA

Record Exchange
– BST sends Toll record to OLEC A if appropriate via BIOSS

Appendix A Figure 7



Billing Concept
– Unbundled Network Elements

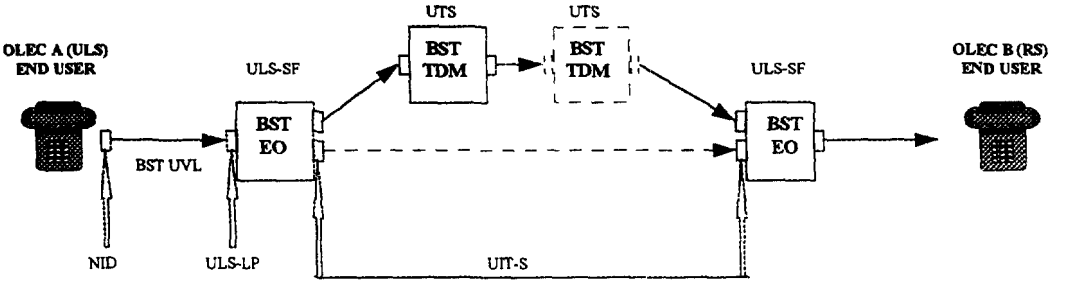
Usage Recordings
– Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

BST bills OLEC A
– UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS
– 2 CCL & 2 3/4RIC until 7/1/97

Billing Factors
– NCTA

Record Exchange
– BST sends Toll record to OLEC A if appropriate via BIOSS

Appendix A Figure 8



Billing Concept
- Unbundled Network Elements
- Resold Local Services

Usage Recordings
- Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
- Normal EO recordings appropriate to the type of service will be made.

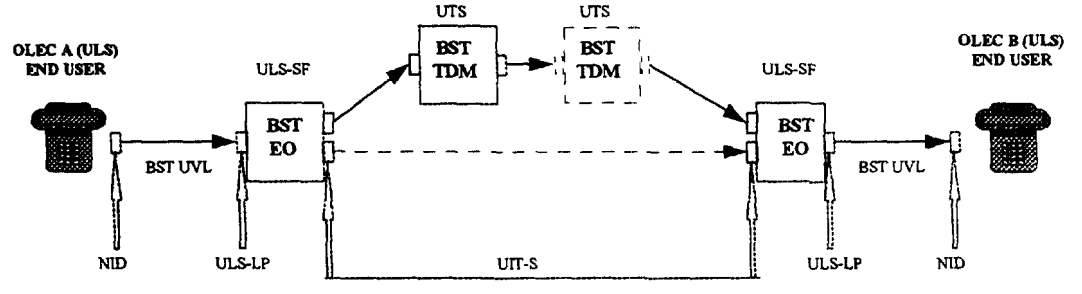
BST bills OLEC A
- UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS
- 2 CCL & 2 3/4RIC until 7/1/97

BST bills OLEC A
- NA

Billing Factors
- NCTA

Record Exchange
- BST sends Toll record to OLEC A if appropriate via BIOSS

Appendix A Figure 9



Billing Concept
- Unbundled Network Elements

Usage Recordings
- Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
- Normal EO recordings appropriate to the type of service will be made.

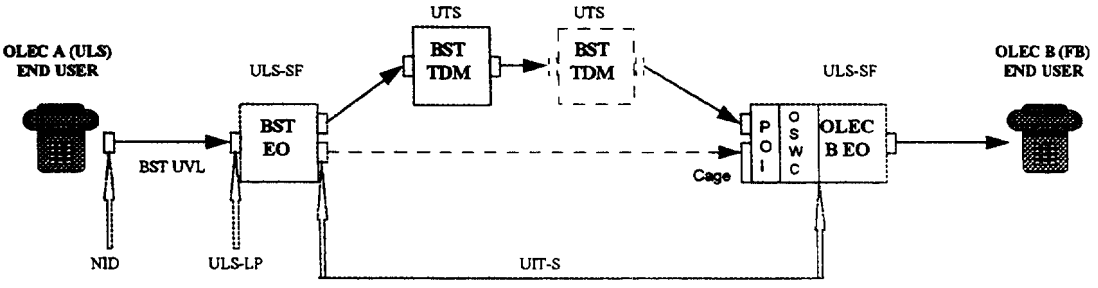
BST bills OLEC A
- UVL, ULS-LP, 2 ULS-SF, UIT-S between the two offices, UTS
- 2 CCL & 2 3/4RIC until 7/1/97

BST bills OLEC B
- UVL, ULS-LP

Billing Factors
- NCTA

Record Exchange
- BST sends Toll record to OLEC A if appropriate via BIOSS

Appendix A Figure 10



Billing Concept
– Unbundled Network Elements

Usage Recordings
– Call Code 001 MBI01 (NOT MBI13) or Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

BST bills OLEC A
– UVL, ULS-LP, ULS-SF, UTS, UIT-S from the BST EO to OLEC EO
– LIC from OSWC to OLEC B EO

OLEC B bills BST
– LIC

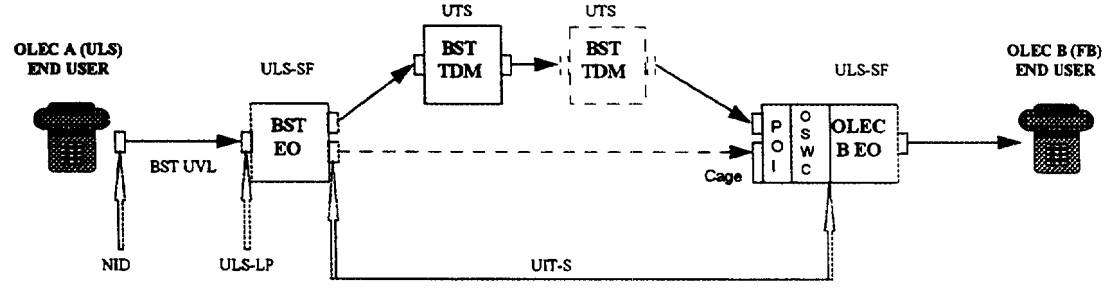
Billing Factors
– NCTA
BST provides OLEC B a PIU & PLU

Record Exchange
– BST sends Local record to OLEC A if appropriate via BIOSS

Bill Verification
– BST holds a copy of this record

Factor Calculation
– BST holds a copy of this record

Appendix A Figure 11



Billing Concept
– Unbundled Network Elements
– Local Interconnection

Usage Recordings
– Call Code 006 is made at the End Office. No tandem indicator, no access time, no attempts. No term recording.
– Normal EO recordings appropriate to the type of service will be made.

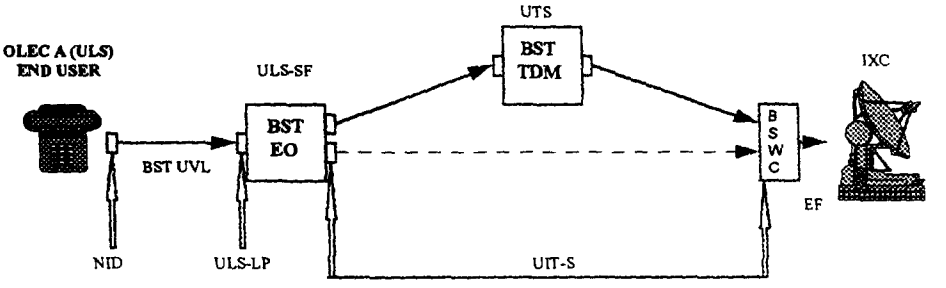
BST bills OLEC A
– UVL, ULS-LP, ULS-SF, UIT-S from the BST EO to OLEC B EO, Originating CCL and 3/4RIC
– Intrastate Access (e.g. RIC, LS and CCL) using OLEC B's rates/structures

OLEC B bills BST
– Intrastate Access (e.g. RIC, Transport, LS and CCL)

Billing Factors
– BST provides OLEC B a PIU & PLU

Record Exchange
–

Appendix A Figure 12



Billing Concept
– Access
– Unbundled Network Elements

Usage Recordings
– Call Code 110

BST bills OLEC A
– UVL, ULS-LP, ULS-SF, Originating CCL and 3/4RIC, UIT-S between BST EO and BST SWC or between BST EO and AT if dedicated between SWC and AT. No UIT-S if dedicated transport
*UNE RATES MUST BE APPLICABLE TO BOTH INTERSTATE AND INTRASTATE TRAFFIC.

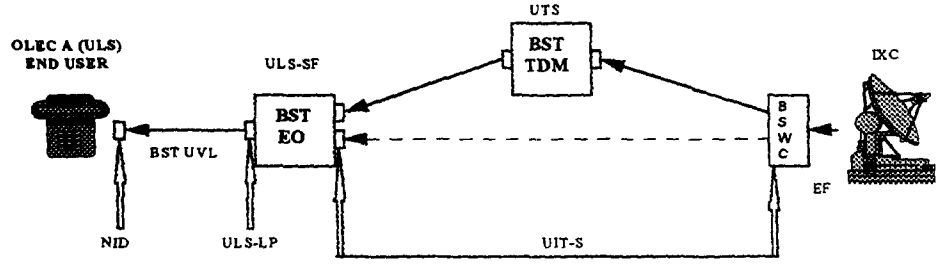
OLEC A bills IXC
– Originating Access as agreed upon between OLEC A & IXC

BST bills IXC
– Dedicated Switched Transport between BST EO & BSWC if dedicated or between AT and BSWC. EF between POP and BSWC.

Billing Factors
– PIU may be required for certain traffic types

Record Exchange
– BST will send records to OLEC A so that OLEC A can bill the IXC

Appendix A Figure 13



Billing Concept
– Unbundled Network Elements
– Access

Usage Recordings
– Call Code 119

BST bills OLEC A
– UVL, ULS-LP, ULS-SF, Terminating CCL and 3/4RIC, UIT-S between BST EO and BST SWC or between BST EO and AT if dedicated between SWC and AT. No UIT-S if dedicated transport
*UNE RATES MUST BE APPLICABLE TO BOTH INTERSTATE AND INTRASTATE TRAFFIC.

OLEC A bills IXC
– Terminating Access as agreed upon between OLEC A & IXC

BST bills IXC
– Dedicated Switched Transport between BST EO & BSWC if dedicated. EF between IXC POP & BSWC

Billing Factors
– IXC must provide terminating PIU & possibly PLU.

Record Exchange
- BST will send records to OLEC A so that OLEC A can bill the IXC

Appendix A Figure 14

Unbundled Dark Fiber (UDF)
CLEC Information Package
Issue 1
February 13, 1997

Document Prepared by:

Product Manager:
Joe Garcia (205) 977-1223

Project Manager:
Curtis Swan (205) 444-0524

Table of Contents

1. MARKET SERVICE DESCRIPTION 1

A. BASIC SERVICE FEATURES 1
B. BASIC SERVICE CAPABILITIES AND RESTRICTIONS 1
C. HOW DOES THIS SERVICE WORK? 2
1. General Description of Performance Standards and Reliability 2
2. Pricing Structure: ..... ***Error! Bookmark not defined.***
3. Deployment Schedule 3
D. FEATURE INTERACTION 3
E. DESCRIPTION OF CENTERS AFFECTED AND THEIR ROLES 3

2. TARIFF REFERENCES/PRICE LIST REFERENCES 3

3. INSTALLATION INTERVALS 3

4. SERVICE INQUIRY & ORDERING GUIDELINES 4

5. CUSTOMER EDUCATION 4

1. Market Service Description

A. *Basic Service Features*

Unbundled Dark Fiber (UDF) is offered as a point-to-point arrangement between a customer designated premises and a BellSouth Wire Center or between BellSouth Wire Centers. This arrangement consists of four optical fibers and fiber terminating equipment as shown in Figure 1-1. UDF is offered without optical signal regeneration to compensate for signal losses.

BellSouth reserves the right to rearrange its network and to modify the manner in which it provides service in order to meet its overall service requirements. This includes, but is not limited to, the right to engineer and construct its fiber optic facilities in accordance with its normal operations without the requirement to modify its materials, splicing techniques, or planned facility rearrangements to suit a specific customer request.

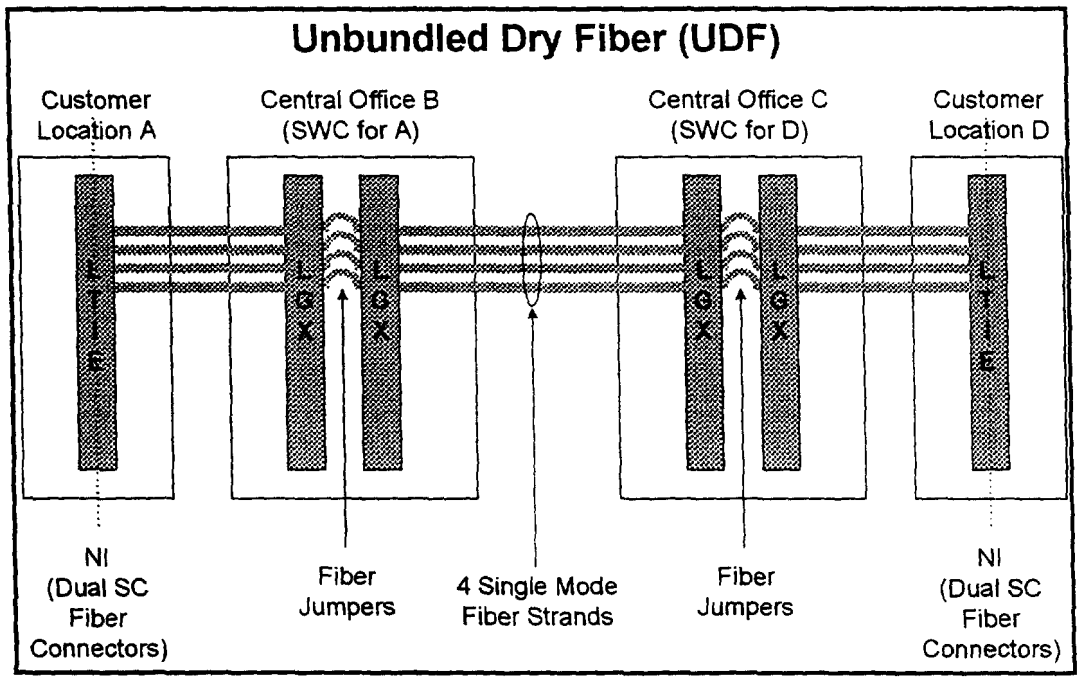


Figure 1-1. UDF Architecture

B. *Basic Service Capabilities and Restrictions*

BellSouth makes no representations regarding the transmission capability of the facilities.

C. *How Does This Service Work?*

UDF can be ordered to utilize BellSouth fiber optic facilities to complete a service that they are providing for their end user or to construct their own network.

1. General Description of Performance Standards and Reliability

Service Performance Objectives:

- There will not be any specified performance objectives for UDF. However, at the request of the customer, if made prior to the installation of the facilities, BellSouth will attempt to estimate the transmission loss of the channel at the customer's intended transmission wavelength: provided, however, that BellSouth does not warrant that the customer's channel will operate at that estimated loss or that the transmission loss will remain constant during the period in which the customer obtains the facilities from BellSouth.

Diversity Requirements:

- No requirements for UNEs but some level of diversity will exist in BST network (embedded and forward looking)

Performance Monitoring

- None

Special Considerations

- Billing Guarantees do not apply

2. Deployment Schedule

- UDF will only be available, where spare fibers exist, in states where the commission has ordered for it to be considered as a UNE. These states are Georgia, Tennessee, and Kentucky. Petitions For Reconsideration have been filed or will be filed in all of these states and if the initial orders are overturned, BellSouth will no longer offer UDF as a UNE.

D. *Feature Interaction*

UDF does not have any features, nor does it interact with any other UNEs.

E. *Description of Centers affected and their roles*

Local Carrier Service Center (LCSC)
ASR/LSR will be received, Service Inquiry initiated, Service Order Issuance, Send FOC to CLEC

Circuit Capacity Management (CCM)
Service Inquiry received and answered

Circuit Provisioning Group (CPG)

Circuit Designed, WORD Document Issued, DLR generated to CLEC

Outside Plant Construction (OSPC)

Circuit Installed based on WORD, Circuit Repaired based on WFA ticket

Access Customer Advocacy Center (ACAC)

Receive Trouble Reports, Issue WFA ticket

AT&T	1/800-517-2511
MCI	1/800-517-5038
Sprint	1/800-988-1402
General Carriers	1/800-307-2513

When reporting a trouble associated with UDF:

-Advise the center that the trouble is for Unbundled Dark Fiber
-Provide the CLEC contact name and call back number
-Provide the BellSouth Circuit ID
-Provide the details of the trouble

2. Installation Intervals

Installation: Individual Case Basis

Repair: Same as FCC Tariff Dry Fiber Arrangements

3. Service Inquiry & Ordering Guidelines

A Service Inquiry will be required for UDF requests in order to determine spare fiber availability and installation interval due to splicing requirements.

All CLEC requests for UDF should be sent to the LCSC via an ASR with UNE**(where ** is a number representing UDF. These requests will have the same field requirements as Special Access services as far as NC, NCI, SECNCI, ACTL, SECLOC, ACNA, and other fields. The LCSC will then issue a Service Order for a CLS circuit to CABS. These requests will have the same field requirements as Special Access Dry Fiber Arrangements as far as NC, NCI, SECNCI, ACTL, SECLOC, ACNA, and other fields.

4. Customer Education

Customer Education for the ordering of UDF is available upon request from the CLEC Account Team.

Unbundled Channelization (UC)
CLEC Information Package
Issue 1
February 13, 1997

Document Prepared by:

Product Manager:
Joe Garcia (205) 977-1223

Project Manager:
Curtis Swan (205) 444-0524

Table of Contents

1. MARKET SERVICE DESCRIPTION 1

A. BASIC SERVICE FEATURES 1
B. BASIC SERVICE CAPABILITIES AND RESTRICTIONS 1
C. HOW DOES THIS SERVICE WORK? 2
1. General Description of Performance Standards and Reliability 2
2. Pricing Structure: ..... ***Error! Bookmark not defined.***
3. Deployment Schedule 3
D. FEATURE INTERACTION 3
E. DESCRIPTION OF CENTERS AFFECTED AND THEIR ROLES 4

2. TARIFF REFERENCES/PRICE LIST REFERENCES 4

3. INSTALLATION INTERVALS 4

4. SERVICE INQUIRY & ORDERING GUIDELINES 5

5. CUSTOMER EDUCATION 5

1. Market Service Description

A. Basic Service Features

Unbundled Channelization (UC) provides the multiplexing capability that will allow a DS1 or DS3 UNE or collocation cross-connect to be channelized at a BellSouth central office. This can be accomplished through the use of a stand-alone multiplexer or a digital cross-connect system at the discretion of BellSouth. The CLEC can activate channels all at once or on an as-needed basis once the UC UNE been installed by connecting lower level UNEs via Unbundled Channel Interfaces (UCIs).

B. Basic Service Capabilities and Restrictions

The initial set of Central Office channelization capabilities will be as follows:

- DS3 Central Office Channelization System (UC-DS3): An element that channelizes a DS3 signal into 28 DS1s
- DS1 Central Office Channelization System (UC-DS1): An element that channelizes a DS1 signal into 24 DS0s
- Central Office Channel Interfaces (UCI): Elements that can be activated on a channelization system.
  - DS1 Central Office Channel Interface (UCI-DS1) elements can be activated on a DS3 Channelization System (UC-DS3).
  - Voice Grade (UCI-VG) or Digital Data (UCI-DS0) Channel Interfaces can be activated on a DS1 Channelization System (UC-DS1).
- AMI and B8ZS line coding with either Super Frame (SF) and Extended Super Frame (ESF) framing formats will be supported.

C. *How Does This Service Work?*

UC allows the CLEC to build channelized facilities that can interconnect with lower level UNEs in a more efficient manner. One example of the is shown in Figure 1-1 below. In this case, the CLEC is collocated in a BellSouth Central Office and chooses to interface with DS1 level cross-connects that are then channelized into 24 DS0s for interfacing with DS0 level UNEs (i.e. UVLs, UDLs).

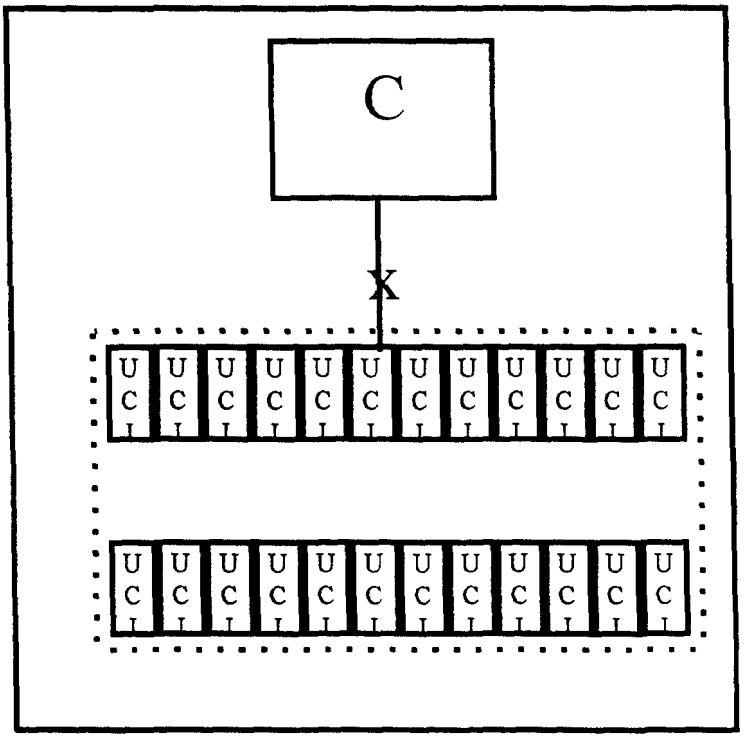


Figure 1-1. Unbundled Channelization Example

1. General Description of Performance Standards and Reliability

Service Performance Objectives:

- There will not be any specified performance objectives for this UC since it is a multiplexing functionality rather than a measurable end to end service arrangement..

Diversity Requirements:

- None

Performance Monitoring

- Whatever exists in Network Element that is used

Special Considerations

- Billing Guarantees do not apply

2. Deployment Schedule
   - Ubiquitous deployment assuming current C.O. and loop capabilities
   - Other channelization arrangements will be made available if requested via the bona fide request process

D. Feature Interaction

UCIs will be billed on the lower level UNE order that is interfacing with the UC arrangement and will have to be compatible with those UNEs. For example, a CLEC cannot try to connect a 64 kb/s UDL to a Voice Grade UCI or vice versa.

E. Description of Centers affected and their roles

Local Carrier Service Center (LCSC)
ASR/LSR will be received, Service Inquiry initiated, Service Order Issuance, Send FOC to CLEC

Circuit Capacity Management (CCM)
Service Inquiry received and answered, CLF circuit built

Circuit Provisioning Group (CPG)
Circuit Designed, WORD Document Issued, DLR generated to CLEC

Central Office Work Group (COWG)
Circuit Installed based on WORD, Circuit Repaired based on WFA ticket

Access Customer Advocacy Center (ACAC)
Receive Trouble Reports, Issue WFA ticket

AT&T	1/800-517-2511
MCI	1/800-517-5038
Sprint	1/800-988-1402
General Carriers	1/800-307-2513

When reporting a trouble associated with UDF:

-Advise the center that the trouble is for Unbundled Dark Fiber
-Provide the CLEC contact name and call back number
-Provide the BellSouth Circuit ID
-Provide the details of the trouble

2. Installation Intervals

Installation: Same as for channelized DS1 and DS3 tariffed services or as specified in contract.

Repair: Same as for channelized DS1 and DS3 tariffed services or as specified in contract.

3. Service Inquiry & Ordering Guidelines

A CSPS Service Inquiry will be required for service requests associated with Unbundled Channelization (UC).

All CLEC requests for should be sent to the LCSC via an ASR with UNE**(where ** is a number representing a particular UNE to collocation arrangement or UNE combination. These requests will have the same field requirements as Special Access services as far as NC, NCI, SECNCI, ACTL, SECLOC, ACNA, and other fields. The LCSC will then issue a Service Order for a CLF circuit to CABS. These requests will have the same field requirements as Special Access services as far as NC, NCI, SECNCI, ACTL, SECLOC, ACNA, and other fields.

4. Customer Education

Customer Education for the ordering of UC is available upon request from the CLEC Account Team.